

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P951484

Luminaire Tested: **GALN-SB5C-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37148 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

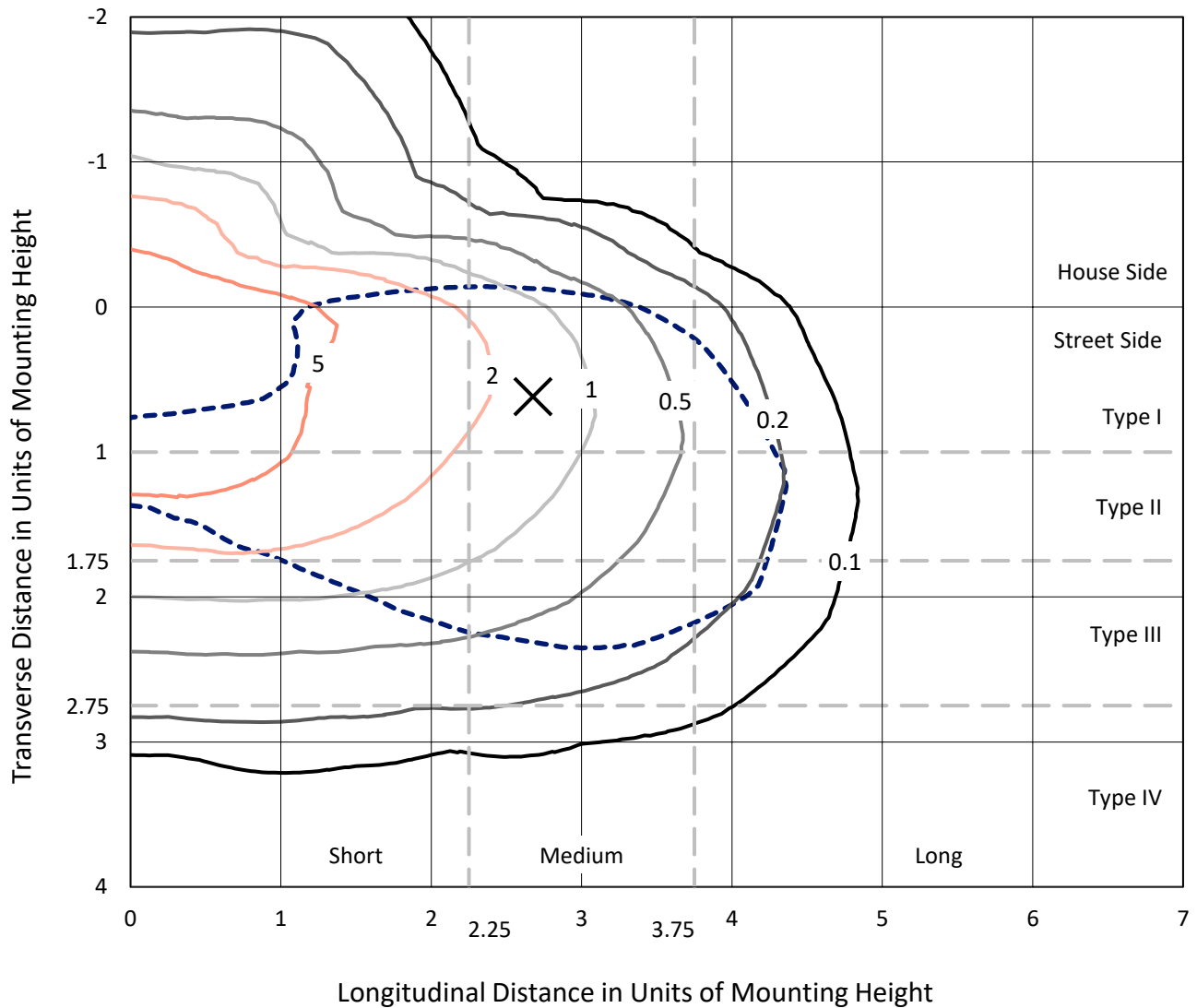
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

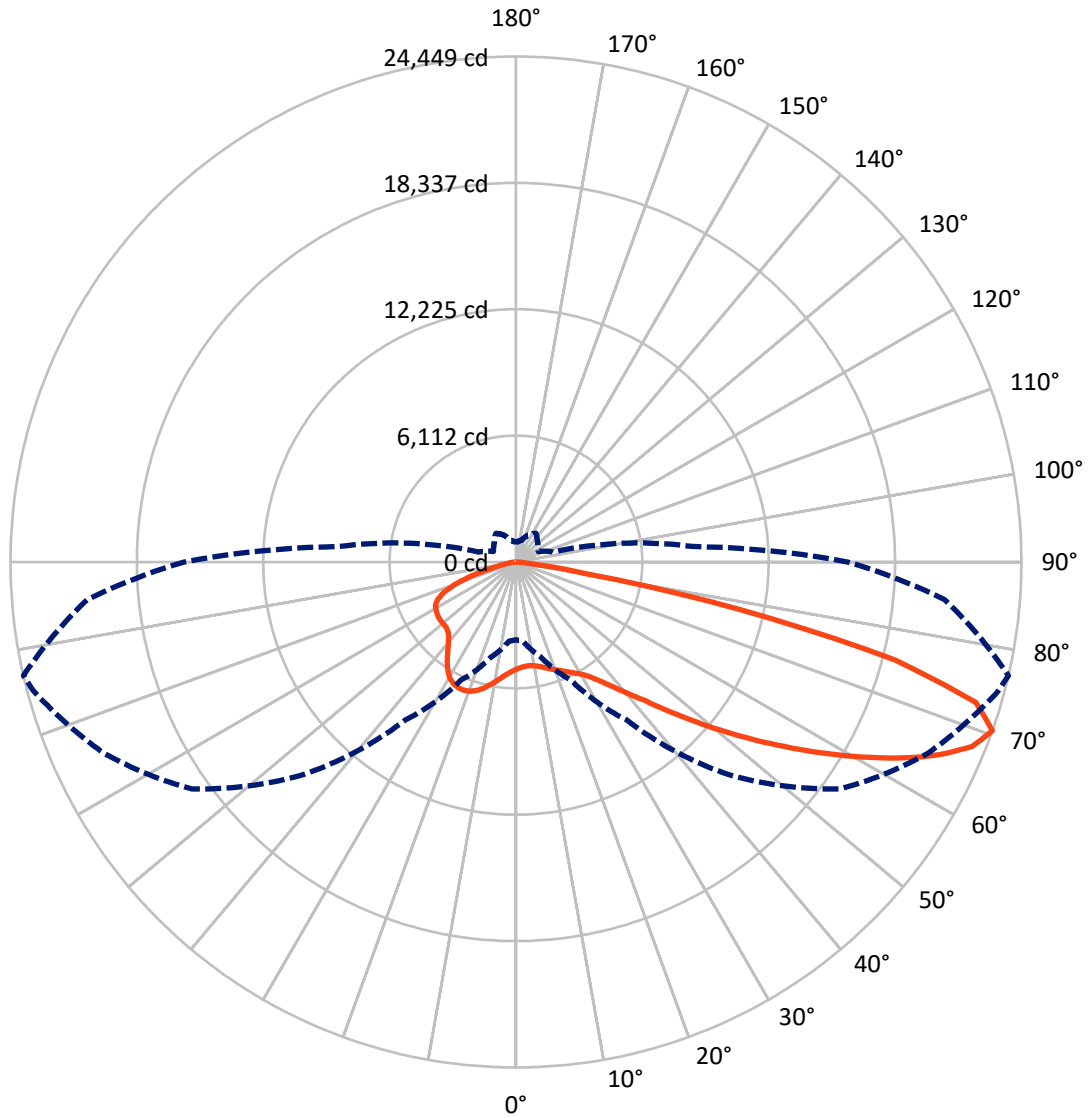
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8134.8 | 0.0 | 8134.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 29013.2 | 0.0 | 29013.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 37148.0 | 0.0 | 37148.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 494.3 | 1.3 |
| 10°-20° | 1426.5 | 3.8 |
| 20°-30° | 2439.5 | 6.6 |
| 30°-40° | 3923.0 | 10.6 |
| 40°-50° | 6124.9 | 16.5 |
| 50°-60° | 8181.4 | 22.0 |
| 60°-70° | 8720.1 | 23.5 |
| 70°-80° | 5368.0 | 14.5 |
| 80°-90° | 470.4 | 1.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 37148.0 | 100.0 |
| 0°-180° | 37148.0 | 100.0 |

Coefficient of Utilization



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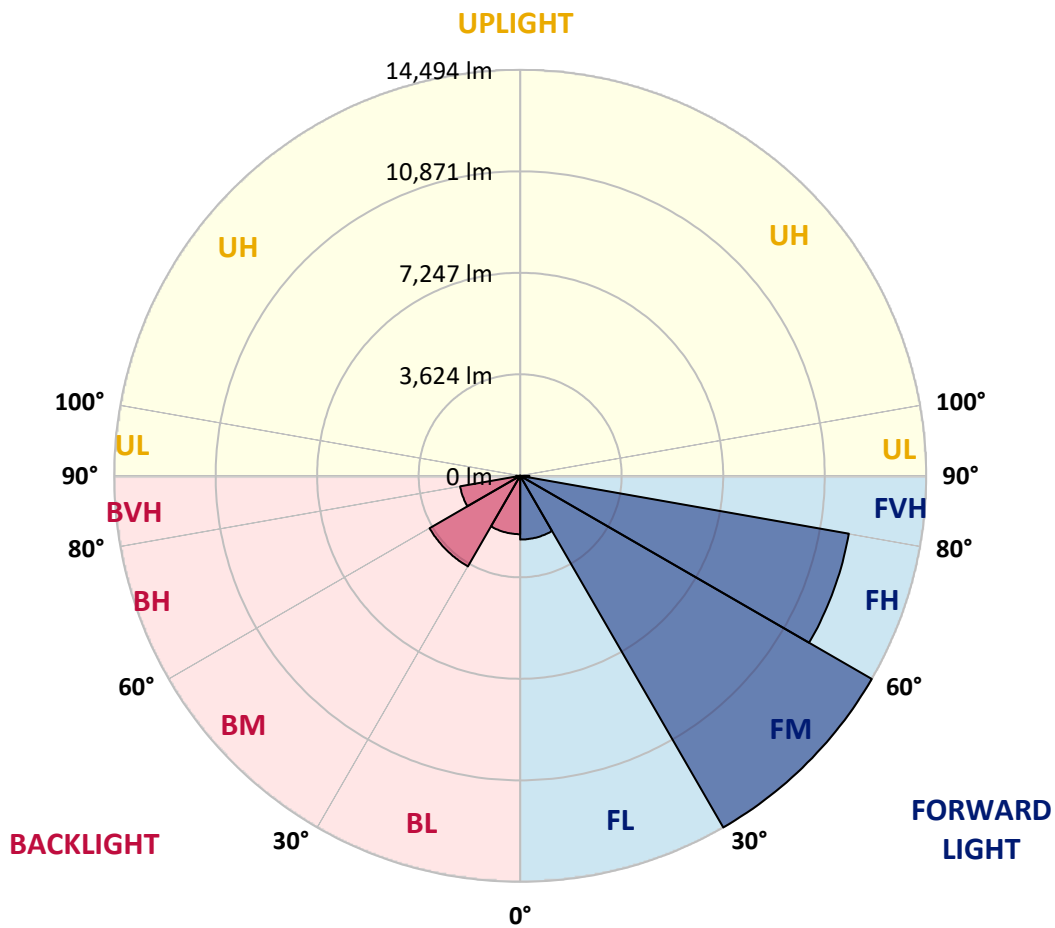
CATALOG NUMBER: GALN-SB5C-840-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2275.9 | 6.1 | | | |
| FM (30°-60°) | 14494.3 | 39.0 | | | |
| FH (60°-80°) | 11914.0 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 328.9 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2084.4 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 3734.9 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 2174.1 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 141.5 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 |
| 2.5° | 4777.2 | 4775.3 | 4800.1 | 4807.7 | 4853.3 | 4885.7 | 4946.6 | 5011.3 | 5095.0 | 5104.5 |
| 5° | 4501.4 | 4501.4 | 4529.9 | 4560.4 | 4619.3 | 4684.0 | 4777.2 | 4889.5 | 5034.1 | 5056.9 |
| 7.5° | 4267.4 | 4282.6 | 4307.3 | 4366.3 | 4434.8 | 4528.0 | 4670.7 | 4830.5 | 5020.8 | 5056.9 |
| 10° | 4079.0 | 4096.1 | 4126.6 | 4174.1 | 4276.9 | 4406.3 | 4592.7 | 4798.2 | 5053.1 | 5110.2 |
| 12.5° | 4020.0 | 4037.2 | 4054.3 | 4090.4 | 4185.6 | 4337.8 | 4560.4 | 4813.4 | 5131.1 | 5188.2 |
| 15° | 4157.0 | 4178.0 | 4164.6 | 4155.1 | 4204.6 | 4343.5 | 4575.6 | 4868.6 | 5228.1 | 5310.0 |
| 17.5° | 4472.8 | 4480.5 | 4450.0 | 4360.6 | 4353.0 | 4427.2 | 4647.9 | 4944.7 | 5349.9 | 5439.3 |
| 20° | 4982.7 | 4969.4 | 4906.6 | 4729.7 | 4628.8 | 4613.6 | 4771.5 | 5058.8 | 5475.5 | 5570.6 |
| 22.5° | 5675.2 | 5660.0 | 5534.5 | 5254.8 | 5030.3 | 4881.9 | 4950.4 | 5207.2 | 5616.3 | 5722.8 |
| 25° | 6539.0 | 6518.1 | 6333.5 | 5953.0 | 5604.8 | 5237.7 | 5193.9 | 5403.2 | 5789.4 | 5888.3 |
| 27.5° | 7547.3 | 7530.2 | 7330.4 | 6828.2 | 6325.9 | 5724.7 | 5496.4 | 5633.4 | 5970.1 | 6082.4 |
| 30° | 8631.8 | 8681.2 | 8327.4 | 7787.0 | 7151.6 | 6360.1 | 5903.5 | 5916.9 | 6204.1 | 6305.0 |
| 32.5° | 9906.5 | 9992.1 | 9565.9 | 8881.0 | 8013.4 | 7050.8 | 6417.2 | 6312.6 | 6544.7 | 6628.4 |
| 35° | 11169.7 | 11266.8 | 10912.9 | 10155.7 | 9156.9 | 7865.0 | 6953.7 | 6767.3 | 6997.5 | 7088.8 |
| 37.5° | 12261.8 | 12391.2 | 12208.5 | 11550.2 | 10380.2 | 8846.8 | 7653.9 | 7301.9 | 7554.9 | 7669.1 |
| 40° | 13123.6 | 13321.5 | 13308.2 | 12897.2 | 11822.3 | 10037.7 | 8542.3 | 7962.1 | 8247.5 | 8371.1 |
| 42.5° | 13823.8 | 13995.0 | 14143.4 | 14122.5 | 13327.2 | 11390.4 | 9586.8 | 8820.1 | 9037.0 | 9179.7 |
| 45° | 14307.0 | 14489.6 | 14809.3 | 15153.6 | 14775.0 | 12838.3 | 10783.5 | 9838.0 | 10035.8 | 10250.8 |
| 47.5° | 14738.9 | 14946.3 | 15361.0 | 15907.0 | 16004.1 | 14291.8 | 12094.4 | 11023.2 | 11204.0 | 11426.6 |
| 50° | 14776.9 | 14955.8 | 15598.8 | 16373.2 | 16877.3 | 15688.2 | 13502.2 | 12353.1 | 12522.4 | 12760.3 |
| 52.5° | 13858.0 | 14139.6 | 15262.1 | 16359.8 | 17278.8 | 16856.4 | 14900.6 | 13736.2 | 13926.5 | 14211.9 |
| 55° | 10756.9 | 11169.7 | 14274.7 | 15850.0 | 17136.1 | 17611.7 | 16230.5 | 15206.9 | 15450.4 | 15749.1 |
| 57.5° | 9265.3 | 9446.0 | 11331.5 | 14921.5 | 16485.4 | 17807.7 | 17353.0 | 16692.8 | 17084.7 | 17411.9 |
| 60° | 8327.4 | 8477.7 | 9592.5 | 13477.5 | 15629.3 | 17497.5 | 18220.5 | 18077.8 | 18755.1 | 19145.1 |
| 62.5° | 7322.8 | 7465.5 | 8479.6 | 11253.5 | 14533.4 | 16982.0 | 18768.4 | 19356.3 | 20467.4 | 20893.6 |
| 65° | 6325.9 | 6447.7 | 7419.9 | 9455.6 | 13140.8 | 16466.4 | 19051.9 | 20461.7 | 22052.2 | 22493.6 |
| 67.5° | 5214.8 | 5315.7 | 6234.6 | 7977.3 | 11447.5 | 15760.5 | 19192.7 | 21331.1 | 23431.5 | 23810.1 |
| 70° | 3763.2 | 3841.2 | 4790.6 | 6308.8 | 9322.4 | 14546.7 | 19135.6 | 21947.6 | 24146.9 | 24449.4 |
| 72.5° | 1778.9 | 1849.3 | 2964.1 | 4096.1 | 6584.6 | 12183.8 | 17980.8 | 21458.6 | 23420.1 | 23269.8 |
| 75° | 949.4 | 1010.2 | 1702.8 | 2246.9 | 3477.8 | 8352.1 | 14714.1 | 18485.0 | 19666.4 | 18935.9 |
| 77.5° | 643.1 | 690.6 | 1054.0 | 1348.9 | 1588.6 | 3964.9 | 9457.5 | 12798.3 | 12313.2 | 11107.0 |
| 80° | 509.9 | 559.3 | 863.7 | 913.2 | 768.6 | 1432.6 | 3907.8 | 5924.5 | 4256.0 | 3403.6 |
| 82.5° | 391.9 | 447.1 | 726.8 | 662.1 | 418.6 | 587.9 | 1137.7 | 1874.0 | 1090.1 | 829.5 |
| 85° | 239.7 | 298.7 | 570.8 | 422.4 | 235.9 | 268.3 | 386.2 | 521.3 | 332.9 | 277.8 |
| 87.5° | 121.8 | 171.2 | 289.2 | 154.1 | 106.5 | 62.8 | 102.7 | 102.7 | 87.5 | 76.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5182.5 | 0° | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 | 5182.5 |
| 5155.8 | 2.5° | 5201.5 | 5239.6 | 5304.2 | 5365.1 | 5412.7 | 5458.4 | 5504.0 | 5528.7 | 5536.4 | 5566.8 |
| 5184.4 | 5° | 5262.4 | 5332.8 | 5458.4 | 5576.3 | 5650.5 | 5696.2 | 5728.5 | 5747.5 | 5751.3 | 5760.9 |
| 5262.4 | 7.5° | 5374.6 | 5486.9 | 5661.9 | 5779.9 | 5835.1 | 5831.2 | 5817.9 | 5770.4 | 5751.3 | 5734.2 |
| 5376.5 | 10° | 5532.5 | 5680.9 | 5895.9 | 5977.7 | 5943.5 | 5852.2 | 5734.2 | 5595.3 | 5530.6 | 5467.9 |
| 5532.5 | 12.5° | 5728.5 | 5916.9 | 6128.0 | 6124.2 | 5954.9 | 5720.9 | 5446.9 | 5233.9 | 5098.8 | 5001.7 |
| 5724.7 | 15° | 5966.3 | 6183.2 | 6344.9 | 6215.6 | 5844.6 | 5424.1 | 5022.7 | 4744.9 | 4623.1 | 4516.6 |
| 5918.8 | 17.5° | 6211.8 | 6443.9 | 6518.1 | 6187.0 | 5566.8 | 4984.6 | 4529.9 | 4311.1 | 4191.3 | 4134.2 |
| 6128.0 | 20° | 6451.5 | 6681.7 | 6620.8 | 6023.4 | 5144.4 | 4486.2 | 4080.9 | 3961.1 | 3936.3 | 3949.6 |
| 6331.6 | 22.5° | 6704.5 | 6910.0 | 6641.7 | 5707.6 | 4606.0 | 3976.3 | 3753.7 | 3757.5 | 3812.7 | 3852.6 |
| 6544.7 | 25° | 6963.3 | 7102.1 | 6586.6 | 5251.0 | 4027.7 | 3601.5 | 3546.3 | 3607.2 | 3715.6 | 3793.6 |
| 6784.4 | 27.5° | 7212.5 | 7273.4 | 6466.7 | 4685.9 | 3531.1 | 3333.2 | 3342.7 | 3468.3 | 3631.9 | 3740.4 |
| 7075.5 | 30° | 7494.1 | 7425.6 | 6236.5 | 4050.5 | 3186.7 | 3103.0 | 3182.9 | 3329.4 | 3493.0 | 3590.1 |
| 7442.7 | 32.5° | 7811.8 | 7556.8 | 5871.2 | 3462.6 | 2943.2 | 2918.5 | 3049.8 | 3144.9 | 3217.2 | 3245.7 |
| 7929.7 | 35° | 8207.5 | 7741.4 | 5403.2 | 3049.8 | 2724.4 | 2783.4 | 2909.0 | 2861.4 | 2832.9 | 2817.6 |
| 8584.2 | 37.5° | 8721.2 | 7990.6 | 4855.3 | 2781.5 | 2547.5 | 2686.4 | 2737.7 | 2589.3 | 2477.1 | 2421.9 |
| 9377.6 | 40° | 9339.5 | 8355.9 | 4328.3 | 2574.1 | 2435.2 | 2602.7 | 2513.2 | 2334.4 | 2191.7 | 2113.7 |
| 10269.8 | 42.5° | 10026.3 | 8738.3 | 3885.0 | 2418.1 | 2372.5 | 2534.2 | 2347.7 | 2134.6 | 1904.4 | 1879.7 |
| 11333.4 | 45° | 10747.4 | 9132.1 | 3582.5 | 2298.3 | 2342.0 | 2475.2 | 2252.6 | 1908.2 | 1744.6 | 1845.5 |
| 12400.7 | 47.5° | 11468.4 | 9493.6 | 3399.8 | 2208.8 | 2326.8 | 2408.6 | 2168.9 | 1782.7 | 1666.6 | 1813.1 |
| 13544.1 | 50° | 12271.3 | 9817.0 | 3318.0 | 2144.1 | 2309.7 | 2382.0 | 2043.3 | 1750.3 | 1584.8 | 1681.8 |
| 14727.5 | 52.5° | 13068.5 | 10068.2 | 3257.1 | 2079.5 | 2284.9 | 2361.0 | 1982.4 | 1712.3 | 1485.9 | 1491.6 |
| 15918.4 | 55° | 13863.7 | 10231.8 | 3190.5 | 1993.8 | 2229.8 | 2315.4 | 1976.7 | 1670.4 | 1411.7 | 1385.0 |
| 17177.9 | 57.5° | 14712.2 | 10325.0 | 3108.7 | 1898.7 | 2134.6 | 2199.3 | 1971.0 | 1638.1 | 1388.8 | 1345.1 |
| 18465.9 | 60° | 15576.0 | 10462.0 | 3002.2 | 1782.7 | 2007.2 | 2060.4 | 1957.7 | 1626.7 | 1375.5 | 1301.3 |
| 19679.7 | 62.5° | 16350.3 | 10509.6 | 2874.7 | 1672.3 | 1843.5 | 1923.5 | 1929.2 | 1617.1 | 1339.4 | 1211.9 |
| 20688.1 | 65° | 16858.3 | 10304.1 | 2652.1 | 1546.8 | 1666.6 | 1782.7 | 1874.0 | 1584.8 | 1274.7 | 1147.2 |
| 21186.5 | 67.5° | 16837.4 | 9718.1 | 2304.0 | 1385.0 | 1495.4 | 1626.7 | 1794.1 | 1529.6 | 1196.7 | 1067.3 |
| 20809.8 | 70° | 16053.5 | 8561.4 | 1862.6 | 1196.7 | 1307.0 | 1459.2 | 1691.3 | 1447.8 | 1103.5 | 979.8 |
| 18504.0 | 72.5° | 13768.6 | 6700.7 | 1352.7 | 976.0 | 1088.2 | 1286.1 | 1558.2 | 1348.9 | 1008.3 | 901.8 |
| 13675.4 | 75° | 9836.1 | 4240.7 | 917.0 | 749.6 | 846.6 | 1090.1 | 1392.7 | 1232.8 | 920.8 | 905.6 |
| 6849.1 | 77.5° | 5024.6 | 2026.2 | 606.9 | 547.9 | 589.8 | 859.9 | 1170.1 | 1101.6 | 934.1 | 747.7 |
| 1948.2 | 80° | 1634.3 | 747.7 | 382.4 | 372.9 | 391.9 | 572.7 | 905.6 | 903.7 | 707.7 | 508.0 |
| 471.8 | 82.5° | 521.3 | 321.5 | 249.2 | 239.7 | 230.2 | 359.6 | 631.6 | 715.4 | 477.5 | 321.5 |
| 169.3 | 85° | 207.4 | 192.2 | 146.5 | 135.1 | 97.0 | 169.3 | 331.0 | 475.6 | 355.8 | 232.1 |
| 43.8 | 87.5° | 76.1 | 76.1 | 40.0 | 28.5 | 20.9 | 57.1 | 89.4 | 142.7 | 203.6 | 119.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| <u>180°</u> |
|-------------|
| 5182.5 |
| 5583.9 |
| 5776.1 |
| 5738.0 |
| 5448.8 |
| 4978.9 |
| 4505.2 |
| 4151.3 |
| 3943.9 |
| 3862.1 |
| 3814.6 |
| 3767.0 |
| 3612.9 |
| 3260.9 |
| 2832.9 |
| 2435.2 |
| 2119.4 |
| 1904.4 |
| 1898.7 |
| 1881.6 |
| 1754.1 |
| 1531.5 |
| 1404.1 |
| 1350.8 |
| 1307.0 |
| 1211.9 |
| 1147.2 |
| 1073.0 |
| 991.2 |
| 896.1 |
| 854.2 |
| 665.9 |
| 449.0 |
| 319.6 |
| 237.8 |
| 118.0 |
| 0.0 |

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